SONY

3-751-399-23 (1)

Radio Cassette Player

WM-F2081

PROPERTY OF THE
NATIONAL TECHNICAL DEPT.
WILL BE LOANED
Do not remove

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number is located at the rear and the serial number is located inside the cassette holder.
Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. WM-F2081 Serial No. _____

Sony Corporation ©1990 Printed in Japan

WALKMAN

WALKMAN is a trademark of Sony Corporation.

Precautions

Handling your Walkman

- Operate the unit on 3 V DC.
  For AC operation and car battery operation, use accessories recommended for the unit. Do not use any other type.
- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust or mechanical shock. Never leave the unit in a car parked in the sun.
- If the unit has not been used for a long time, set it in playback mode for a few minutes before inserting a cassette.

Tips on headphone listening

- Do not listen with headphones while driving, cycling, etc.
- Listen at a moderate volume to avoid damaging your ears and to avoid disturbing those close to you.

Note on cassettes longer than 90 minutes

The use of cassettes longer than 90 minutes is not recommended except for long continuous playback.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Specifications

Radio section

Frequency range
- FM: 87.5 – 108 MHz
- AM: 530 – 1,710 kHz (10 kHz step)
  531 – 1,602 kHz (9 kHz step)

Antennas FM: Headphone cord antenna
AM: Built-in ferrite bar antenna

Tape player section

Frequency response
- 40 – 14,000 Hz (Normal)
- 40 – 16,000 Hz (CrO2/METAL)

Power output 10 mW + 10 mW 16Ω at DC operation
Headphones (stereo minijack): load impedance 8 — 300Ω

Power requirements
- 3 V DC
  Two size AA (R6) batteries
- DC IN 3 V jack accepts:
  Optional Sony EBP-500B battery case for use with size D (R20) batteries
  Optional Sony AC-D2M power adaptor for use on 120 V AC, 60 Hz
  Optional Sony DCC-70 car battery cord for use with 12 V car battery

Battery life Approx. 9 hours on tape playback and approx. 36 hours on FM reception, using Sony alkaline batteries AM3 (N)

Dimensions Approx. 87.0 × 121.5 × 39.5 mm (w/h/d) (3½ × 4⅞ × 1⅝ inches) not incl. projecting parts and controls

Weight Approx. 265 g (9.3 oz) incl. batteries and belt clip

Accessories supplied
- Stereo headphones (1)
- Belt clip (1)

Design and specifications subject to change without notice.

Optional accessories

AC power adaptor AC-D2M
Battery case EBP-500B
Car battery cord DCC-70

Note: Use only the recommended AC power adaptor or car battery cord manufactured by Sony. Polarity of the plugs of other manufacturers may be different.

Polarity of the Sony plug

Sony Service Centers

Arizona
Phoenix
3340 North Scottsdale Road
Tempe AZ 85281
(602) 968-1888

California
Burbank (Los Angeles area)
4100 Riverside Drive, Suite 4
Burbank, CA 91505
(818) 842-7605

Costa Mesa (Orange County area)
3128 Bristol Street South
Costa Mesa, CA 92626
(714) 549-8331

San Bruno (San Francisco area)
781 Camino Plaza
San Bruno, CA 94066
(415) 871-7810

San Diego
6811 Convoy Drive
San Diego, CA 92121
(619) 278-2724

San Jose
1519 Old Oakland Road
San Jose, CA 95112
(408) 280-7894

Colorado
Denver
Denver Plaza Center
10141 East 40th Avenue
Aurora, CO 80014
(303) 755-1888

Florida
Fort Lauderdale
2850 North 28th Terrace
Hollywood, FL 33020
(305) 920-5601

Georgia
Atlanta
120 Interstate North Parkway, East
Suite 116
Atlanta, GA 30339
(404) 953-1871

Hawaii
Honolulu
990 Moanalua Street
Honolulu, HI 96819
(808) 834-8612

Illinois
Elks (Chicago area)
1640 North Caldwell Avenue
Elks, IL 60648
(312) 647-2400

Westmont (Chicago area)
6530 Joliet Square Avenue
Westmont, IL 60559
(312) 969-0045

Kansas
Kansas City
11212 West 84th Street
Suite 100
KS 66214
(913) 888-3833

Maryland (Washington DC)
Washington DC
7359 Hatton Lane
Landen Park, MD 20785
(301) 429-2900-01

Massachusetts
Boston
380 University Avenue
128 Westwood Industrial Center
Westwood, MA 02090
(617) 329-5150

Michigan
Detroit
43304 Seven Mile Road
Novi, MI 48050
(313) 344-4044

Minnesota
Minneapolis
6300 W. 35 – Street
St. Louis Park, MN 55416
(612) 920-8300

Missouri
St. Louis
12482 D Natural Bridge Road
Bridgeton, MO 63044
(314) 291-2201

New Jersey
Mahwah (N.Y. Metropolitan Area)
389 Route 17 South
Mahwah, NJ 07430
(201) 847-3400

Ohio
Cleveland
4370 Tuscany Road
Parma Heights, OH 44130
(216) 845-1888

Pennsylvania
Philadelphia
651 Park Avenue
King of Prussia, PA 19406
(215) 768-9890

Pittsburgh
Warrendale
Gulf Oil Penn Highlands Rt. 19N
Westland, PA 15090
(412) 935-8488

Texas
Dallas
621 Preston Valley Shopping Center
Dallas, TX 75230
(214) 661-2521

Houston
5747 Richmond Avenue
Houston, TX 77057
(713) 783-9781

Washington
Seattle
875 Yesler
Seattle, WA 98108
(206) 762-8500

Sony District Service Offices

Western Zone

Western District
Sony Service Company
2219 Bryan Street, Suite
Dallas, TX 75201
(214) 748-9838

Northwest District
Sony Service Company
1355 NW Oakland Road
San Jose, CA 95112
(408) 280-7611

Southwestern District
Sony Service Company
3201 Fillmore Dr. Suite 100
Irving, TX 75061
(214) 580-1211

Central Zone

Mid-West District
Sony Service Company
5505 West Howard Avenue
Niles, IL 60648
(312) 647-2414

East Central District
Sony Service Company
26200 Town Center Drive
Suite 201 Nov. MI 48050
(313) 347-2251

Eastern Zone

Eastern District
Sony Service Company
336 Route 17 South
Mahwah, NJ 07430
(201) 529-1818

Mid-Atlantic District
Sony Service Company
651 Park Avenue
King of Prussia, PA 19406
(215) 768-9884

Southeastern District
Sony Service Company
120 Interstate North Parkway East
Suite 410
Atlanta, GA 30339
(404) 953-5898

LIMITED WARRANTY

SONY CORPORATION OF AMERICA ("SONY") warrants this product against defects in materials or workmanship, as follows:

1. For a period of 90 days from the date of purchase, SONY will pay the labor charges of your SONY authorized service facility to repair the defective product. After the 90 day period, you must pay for all labor charges.
2. In addition, SONY will supply, at no charge, new or rebuilt replacements for defective parts for a period of 1 year from the original date of purchase.

Labor and Parts

To obtain warranty service during the initial 90 day period, you must take the product, or deliver the product prepaid, to a SONY authorized service facility.

Parts Only

During the remainder of the warranty period, any defective part will be replaced if it is taken or delivered prepaid, to a SONY service center. Labor for removal and installation is available from your SONY authorized service facility or SONY service center at your expense.

This warranty does not cover cosmetic damage, and damage due to acts of God, accident, misuse, abuse or negligence to the product, including the antenna. This warranty is valid only in the United States of America.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the warranty period must be presented to obtain warranty service.

This warranty is valid only if the serial number appears on the product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership up within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For your convenience, Sony Corporation of America has established the Customer Information Center to supply you with product or service information.

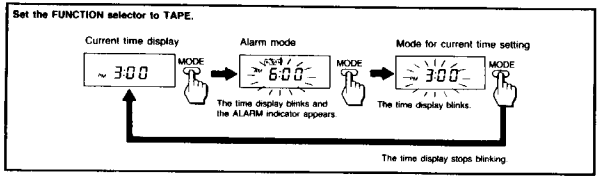
SONY CUSTOMER INFORMATION CENTER
1-800-538-SONY (7669)

SONY CORPORATION OF AMERICA

Clock Operation

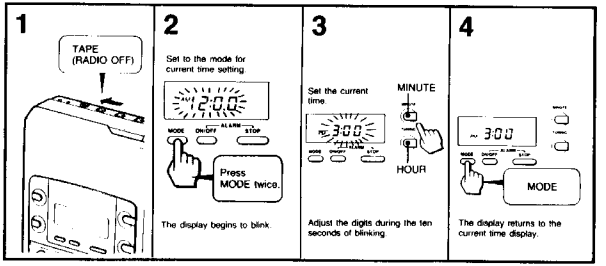
How to Use the MODE Button

You can change the operation mode in sequence by pressing the MODE button.



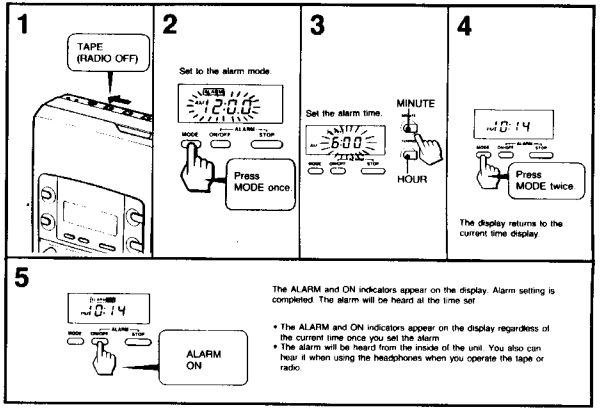
The alarm mode display and the display of the mode for current time setting will automatically return to the current time display after about 10 seconds.

Setting the Current Time

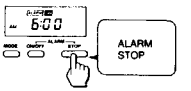


- If you keep pressing the HOUR and MINUTE buttons, the digits advance in sequence.
- The hour display does not advance even when the minute display returns to "00" after "59".
- The hour display is on a 12-hour cycle.
- Replace the batteries within 10 minutes, or the time you set will be canceled.

Setting the Alarm

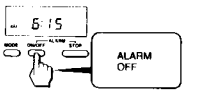

1
TAPE (RADIO OFF)
2
Set to the alarm mode.
Press MODE once.
3
Set the alarm time.
MINUTE
HOUR
4
Press MODE twice
The display returns to the current time display.
5
ALARM ON
The ALARM and ON indicators appear on the display. Alarm setting is completed. The alarm will be heard at the time set.
• The ALARM and ON indicators appear on the display regardless of the current time once you set the alarm.
• The alarm will be heard from the inside of the unit. You also can hear it when using the headphones when you operate the tape or radio.

To stop the alarm



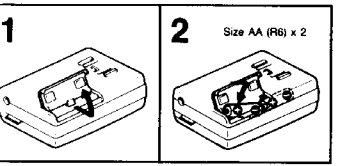
- If you do not press the ALARM STOP button, the alarm will stop automatically after 10 minutes.
- The preset alarm time cannot be canceled even if you press the ALARM STOP button.

To cancel the alarm



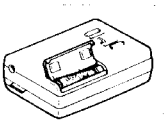
ALARM and ON indicators go off.

Installing Batteries



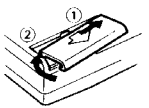
Notes on batteries

- Remove the batteries when you will not use the unit for a long time to prevent damage from battery leakage and corrosion.
- The internal batteries are disconnected when you plug a cord into DC IN 3 V.
- When the batteries are run down, the DIR/BATT indicator glows faintly and the sound becomes unstable. Try a new set of batteries in this case.
- When you have installed batteries, you can see one battery slanting upward a little as illustrated below. This is not a problem and makes battery removal easy.

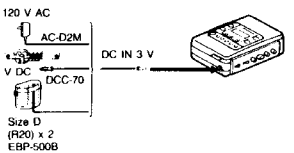


ow to attach the battery compartment lid

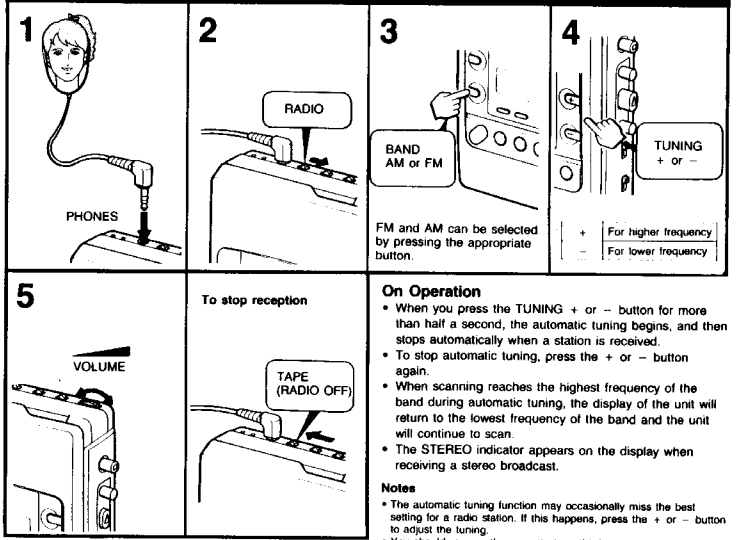
he battery compartment lid is detached by an accidental op, excessive force etc., attach it as illustrated in the mbered order.



Other Power Sources



Radio Reception



On Operation

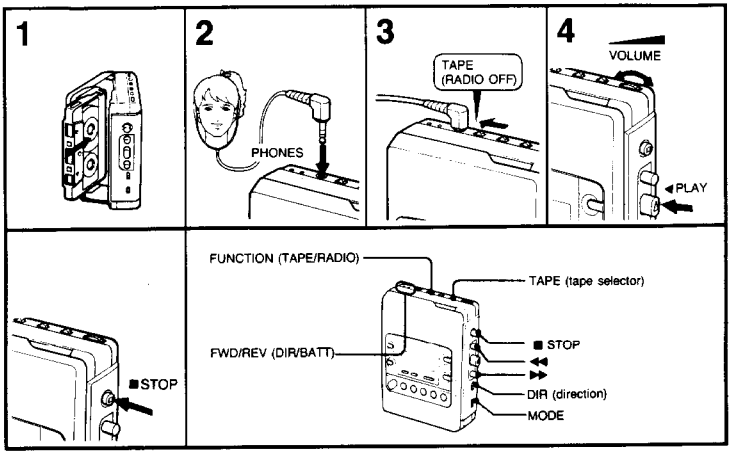
- When you press the TUNING + or – button for more than half a second, the automatic tuning begins, and then stops automatically when a station is received.
- To stop automatic tuning, press the + or – button again.
- When scanning reaches the highest frequency of the band during automatic tuning, the display of the unit will return to the lowest frequency of the band and the unit will continue to scan.
- The STEREO indicator appears on the display when receiving a stereo broadcast.

Notes

- The automatic tuning function may occasionally miss the best setting for a radio station. If this happens, press the + or – button to adjust the tuning.
- You should remove the cassette tape if it has a metallic cassette shell or labels. Such cassettes may cause interference or difficulty in tuning.

To Improve Receiving Condition

Tape Playback



Notes on playback

- At the end of the tape, ◀ PLAY will be released automatically in case that the MODE selector is set to ⇄. After winding the tape with ◀◀ or ▶▶, you must press ■ STOP.
- Do not open the cassette holder while the tape is running.
- The DIR selector functions even in the stop mode.
- The sheet inside the cassette holder protects the mechanism when the unit is transported without a cassette inside. Remove the sheet before using the unit.

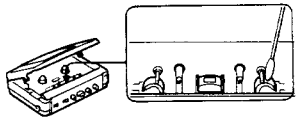
On Tape Operation	
To listen to the other side of the cassette during playback	
To stop the tape	
To wind the tape rapidly	
To check the direction of the tape transportation	See FWD and REV indicators

To Use According to Your Tape	
For normal (TYPE I) tapes	
For CrO_2 (TYPE II) tapes or metal (TYPE IV) tapes	

On [illegible] Side	
To play back both sides of the cassette once If you begin playback on the reverse side, the unit will shut off at the end of that side of the tape.	
To play back both sides of the cassette repeatedly	

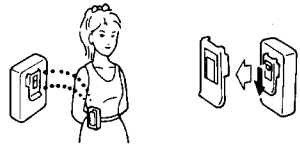
On Maintenance

- To enjoy optimum stereo sound, wipe the head, capstans and pinch-rollers with a cotton swab moistened with alcohol after every 10 hours of use.



- Keep the plug of your headphones clean to obtain the optimum stereo sound. Wipe it with a dry, soft cloth.
- Do not use alcohol, benzine or thinner to clean the case.

Using the Belt Clip



FM

Since the headphone cord serves as an FM antenna, extend it for better reception.

AM

Since the reception is affected by the direction of the unit, rotate the unit horizontally for optimum reception.

To Improve FM Sensitivity

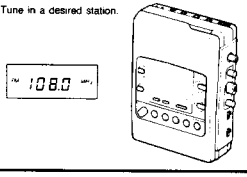
Use the FM SENS selector.
For FM reception, normally set to DX. If a very strong station signal causes noise, set to LOCAL. The noise will be reduced.

Preset Tuning

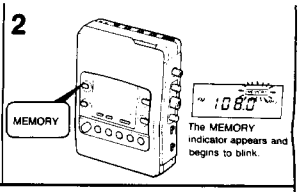
You can preset up to 10 AM and/or FM stations.
Preset a station while the MEMORY indicator blinks for 10 seconds.

Presetting the Stations

1 Tune in a desired station.



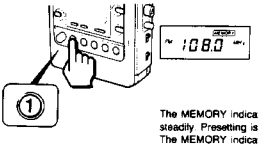
2



The MEMORY indicator appears and begins to blink.

3 Put the station into memory.

Example: To preset the station on the 1 button.

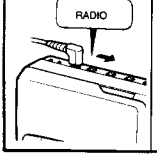


The MEMORY indicator stops blinking and lights steadily. Presetting is completed.
The MEMORY indicator goes off after 5 seconds.

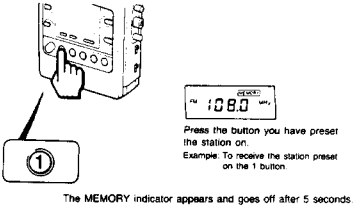
- To stop the presetting operation just after pressing the MEMORY button, press the button again.
  The MEMORY indicator goes off.
- To preset or to receive the station on buttons from six to ten, press the +5 button before pressing the buttons from one to five. The +5 indicator appears on the display and goes off after 5 seconds together with the MEMORY indicator.

Receiving the Preset Stations

1



2



Press the button you have preset the station on.
Example: To receive the station preset on the 1 button.

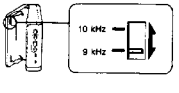
The MEMORY indicator appears and goes off after 5 seconds.

To Change the AM Tuning Interval

The AM tuning interval is factory preset to 9 kHz or 10 kHz in order to match the local frequency allocation system. If you use the receiver in an area where the frequency allocation system is based on another interval, change the position of the switch with a thin instrument as the illustration shows.

Note

If you change the interval, all preset stations, current time, and alarm time are canceled.



If the Display Shows Incorrect Information

When you use the unit for the first time or when you have left the unit without batteries for a long time, the display may show incorrect information or the preset stations may not be received correctly. If this happens, set the switch to the other position with a thin instrument, and reset the switch to the original position.